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In the Claims

Claim 1 (Currently Amended): A composition comprising a polynucleotide which encodes a polypeptide having the characteristic of cliciting an immune response protective against disease or death caused by a rickettsial pathogen, wherein said polypeptide comprises the amino acid sequence of SEO-HD-NO: 32 selected from the group consisting of SEO ID NOs: 26, 28, 30, 34, and-or-an imminogenic fragment-immunogenic fragments thereof.

Claim 2 (Original): The composition, according to claim 1, wherein said rickettsial pathogen is selected from the group consisting of Rickettsia spp., Ehrlichia spp., Anaplasma spp., and Cowdria spp.

Claim 3 (Currently Amended): The composition, according to claim 1, wherein said polymucleotide comprises the nucleic acid sequence of SEQ ID NO: 31selected from the group consisting of SEO ID NOs; 25, 27, 29, 33, and fragments thereof which encode immunogenic polypeptides, polypeptide fragments.

Claim 4 (Original): The composition, according to claim 1, wherein said polynucleotide further comprises a nucleic acid vaccine vector.

Claim 5 (Original): The composition, according to claim 1, further comprising a pharmaceutically acceptable earrier.

Claim 6 (Currently Amended): A polynucleotide encoding a polypeptide comprising SEQ-ID NO.-32 SEQ ID NOs; 26, 28, 30,34, and or fragments thereof.

Claim 7 (Canceled):

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Chim 8 (Original): A method for protecting a susceptible host against disease or death caused by a rickettsial pathogen, said method comprising administering an effective amount of a polynucleotide encoding polypeptide according to claim 1.

Claim 9 (Original): The method, according to claim 8, wherein said rickettsial pathogen is selected from the group consisting of *Rickettsia* spp., *Ehrlichia* spp., *Anaplasma* spp., and *Cowdria* spp.

Claim 10 (Currently Amended): The method, according to claim 10, wherein said polynucleatide comprises SEQ HONO. 31.5EO ID NOs; 25, 27, 29, 33 or, and fragments thereof.

Claim 11 (Original): The method, according to claim 10, wherein said nucleic acid further comprises an appropriate nucleic acid vector.

Claim 12 (Original): The method, according to claim 10, wherein said composition further comprises a pharmaceutically acceptable carrier.

Claim 13 (Currently Amended): The method, according to claim 10, which further comprises administration to said host a polypeptide comprising SEQ-ID-NO: 32 SEQ II) NOs: 26, 28, 30, 34, or immunogenic fragments thereof.

Claim 14 (Currently Amended): The method according to claim 10, wherein said polynucleotide comprises a sequence encoding a polypeptide that begins_at-base 67-of-SI:Q-ID NO:24nt; a) base 46 of SI:Q ID NO: 25; b) base 76 of SI:Q ID NO: 27; c) base 58 of SI:Q ID NO: 29; nrd) base 79 of SI:Q ID NO: 33.

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